EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(modular exponentiation AND asymmetrical cryptosystem AND modulus AND ex ponent AND private key AND quantity AND equal\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/09 16:23
L3	287	(708/ 4 92).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 16:47
L4	265	(708/491).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 16:47
L5	286	(380/282).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 16:47
L8	140	(708/205).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 16:56
L9	5	Chinese Residue Theorem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/09 17:08
L10	0	Chinese Residue Theorem and RCA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/09 17:02

EAST Search History

144	1	Chinese Residue Theorem and	US-PGPUB;	ADJ	ON	2007/03/09 17:03
L11	1	decrypt\$4 and encryp\$4	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2007/03/09 17:03
L12	1	"5991415".pn.	USPAT	OR	OFF	2007/03/09 17:03
L15	199	(380/285).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 17:20
L16	1232	(380/30).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 17:20
S1 .	3694	Seifert.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/03/09 14:55
S2	0	Seifert-Jean.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/03/05 13:52
S3 .	5	Velten-Joachim.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/09 17:12
S4		"7016500".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/05 14:29

EAST Search History

S5	4	"789373".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2007/03/09 16:23
	1		IBM_TDB			

3/9/2007 5:26:43 PM C:\Documents and Settings\ashan\My Documents\EAST\Workspaces\10789373ModularExpon.wsp Page 3 Interference search

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(modular exponentiation AND asymmetrical cryptosystem AND modulus AND ex ponent AND private key AND quantity AND equal\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/09 16:23



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IEEE JNL	IEEE Journal or Magazine	view selected items Select All Deselect All View: 1-25 26-
IET JNL	IET Journal or Magazine	1. Residue-to-binary converters based on new Chinese remainder theorem
IEEE CNF	IEEE Conference Proceeding	Yuke Wang; Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transact
IET CNF	IET Conference Proceeding	Circuits and Systems II: Express Briefs, IEEE Transactions on] Volume 47, Issue 3, March 2000 Page(s):197 - 205
IEEE STD	IEEE Standard	Digital Object Identifier 10.1109/82.826745
		AbstractPlus References Full Text: PDF(236 KB) IEEE JNL Rights and Permissions
		2. Cardlac resynchronization therapy Panescu, D.; Engineering in Medicine and Biology Magazine, IEEE Volume 24, Issue 2, March-April 2005 Page(s):22 - 26 Digital Object Identifier 10.1109/MEMB.2005.1411342 AbstractPlus References Full Text: PDF(604 KB) IEEE JNL Rights and Permissions
		3. A CRT-RSA Algorithm Secure against Hardware Fault Attacks Sining Liu; King, B.; Wei Wang; Dependable, Autonomic and Secure Computing, 2nd IEEE International Symposept. 2006 Page(s):51 - 60 Digital Object Identifier 10.1109/DASC.2006.5 AbstractPlus Full Text: PDF(166 KB) IEEE CNF Rights and Permissions
		4. A CRT picture design based on plant images by nuclear power plant open Kawano, R.; Ohtsuka, T.; Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceeding International Conference on Volume 5, 12-15 Oct. 1999 Page(s):726 - 731 vol.5 Digital Object Identifier 10.1109/ICSMC.1999.815641 AbstractPlus Full Text: PDF(496 KB) IEEE CNF Rights and Permissions

5. Design principle and variant structure of a controllable reactor of transform

Electrical Machines and Systems, 2005, ICEMS 2005, Proceedings of the Eigh

Mingxing Tian; Feng Zhao;

Conference on

Volume 3, 27-29 Sept. 2005 Page(s):1780 - 1783 Vol. 3 AbstractPlus | Full Text: PDF(1384 KB) IEEE CNF Rights and Permissions 6. Characteristics and scanning circuit of Camei CRT Hongqing Zhu; Miaokang Wang; Biaolin Huang; Vacuum Electronics Conference, 2002, IVEC 2002, Third IEEE International 23-25 April 2002 Page(s):276 - 277 Digital Object Identifier 10.1109/IVELEC.2002.999377 AbstractPlus | Full Text: PDF(255 KB) IEEE CNF Rights and Permissions 7. Novel method for CRT display ITC measurement Chuang, C.; Hong, R.; Tsai, J.; Information Display, 1999. ASID '99. Proceedings of the 5th Asian Symposium 17-19 March 1999 Page(s):239 - 243 Digital Object Identifier 10.1109/ASID.1999.762754 AbstractPlus | Full Text: PDF(448 KB) | IEEE CNF Rights and Permissions 8. A review of the current status of the CRT and likely future trends Woodcock, S.; Graphic Display Devices, IEE Colloquium on 8 May 1989 Page(s):1/1 AbstractPlus | Full Text: PDF(60 KB) IET CNF 9. Analysis of shadow mask thermal deformation and prediction of beam lar color CRT Kug Woon Kim; Nam Woong Kim; Dae-Jin Kang; Consumer Electronics, IEEE Transactions on Volume 44, Issue 2, May 1998 Page(s):442 - 450 Digital Object Identifier 10.1109/30.681963 AbstractPlus | Full Text: PDF(748 KB) IEEE JNL Rights and Permissions 10. Development of advanced CRT disassembly technology Geskin, E.S.; Goldenberg, B.; Caudill, R.; Electronics and the Environment, 2002 IEEE International Symposium on 6-9 May 2002 Page(s):249 - 253 Digital Object Identifier 10.1109/ISEE.2002.1003274 AbstractPlus | Full Text: PDF(584 KB) IEEE CNF Rights and Permissions 11. Modulation transfer function of very high resolution miniature cathode ra Bedell, R.J.; Electron Devices, IEEE Transactions on Volume 22, Issue 9, Sep 1975 Page(s):793 - 796 AbstractPlus | Full Text: PDF(472 KB) IEEE JNL Rights and Permissions 12. Perfect flat CRT discussed from a standpoint of "viewing performance" П Saito, T.; Consumer Electronics, IEEE Transactions on Volume 44, Issue 3, Aug. 1998 Page(s):712 - 717 Digital Object Identifier 10.1109/30.713186 AbstractPlus | References | Full Text: PDF(428 KB) | IEEE JNL Rights and Permissions

.	13. RSA speedup with Chinese remainder theorem immune against hardward cryptanalysis Sung-Ming Yen; Seungjoo Kim; Seongan Lim; Sang-Jae Moon; Computers, IEEE Transactions on Volume 52, Issue 4, April 2003 Page(s):461 - 472 Digital Object Identifier 10.1109/TC.2003.1190587 AbstractPlus References Full Text: PDF(518 KB) IEEE JNL Rights and Permissions
	14. A novel vision system for CRT panel auto-inspection Der-Baau Perng; Cheng-Chuan Chou; Wei-Yu Chen; Mechatronics, 2005. ICM '05. IEEE International Conference on 10-12 July 2005 Page(s):622 - 625
	AbstractPlus Full Text: PDF(239 KB) IEEE CNF Rights and Permissions
	15. Efficient multi-prime RSA immune against hardware fault attack Yang, Y.; Abid, Z.; Wang, W.; Zhang, Z.; Yang, C.; Circuits and Systems, 2005. ISCAS 2005. IEEE International Symposium on 23-26 May 2005 Page(s):4649 - 4652 Vol. 5 Digital Object Identifier 10.1109/ISCAS.2005.1465669
	AbstractPlus Full Text: <u>PDF</u> (168 KB) IEEE CNF Rights and Permissions
	16. A CSCW method for designing CRT correcting lens Yuxiu Cao; Xipeng Tong; Xiaosong Yang; Long Tang; Computer Supported Cooperative Work in Design, 2002. The 7th International 25-27 Sept. 2002 Page(s):189 - 192 Digital Object Identifier 10.1109/CSCWD.2002.1047681
	AbstractPlus Full Text: PDF(309 KB) IEEE CNF Rights and Permissions
	17. Handoff traffic distribution in cellular networks Zeng, H.; Chlamtac, I.; Wireless Communications and Networking Conference, 1999, WCNC, 1999 IE 21-24 Sept. 1999 Page(s):413 - 417 vol.1 Digital Object Identifier 10.1109/WCNC.1999.797858
	AbstractPlus Full Text: PDF(404 KB) IEEE CNF Rights and Permissions
	18. Contrast mapping and evaluation for electronic X-ray images on CRT dls Suzuki, J.; Furukawa, I.; Ono, S.; Kitamura, M.; Ando, Y.; Medical Imaging, IEEE Transactions on Volume 16, Issue 6, Dec. 1997 Page(s):772 - 784 Digital Object Identifier 10.1109/42.650874
	AbstractPlus References Full Text: PDF(252 KB) IEEE JNL Rights and Permissions
	19. Life-cycle environmental impacts of CRT and LCD desktop monitors Socolof, M.L.; Overly, J.G.; Kincaid, L.E.; Dhingra, R.; Singh, D.; Hart, K.M.; Electronics and the Environment, 2001, Proceedings of the 2001 IEEE Internation 7-9 May 2001 Page(s):119 - 127
	Digital Object Identifier 10.1109/ISEE.2001.924513 AbstractPlus Full Text: PDF(580 KB) IEEE CNF
	Rights and Permissions
	20. A new CSCW prototype system for color CRT CAD/CAM Yuxin Cao: Chunxiao Xing: Long Tang: Lizhu Zhou:

12-14 July 2001 Page(s):542 - 545 Digital Object Identifier 10.1109/CSCWD.2001.942320 AbstractPlus | Full Text: PDF(224 KB) IEEE CNF Rights and Permissions 21. A Java-based system for remote correction of CRT color distortion Abrardo, A.; Barni, M.; Cappellini, V.; Zappalorti, M.; Fabiani, L.; Multimedia Signal Processing, 1999 IEEE 3rd Workshop on 13-15 Sept. 1999 Page(s):673 - 678 Digital Object Identifier 10.1109/MMSP.1999.793943 AbstractPlus | Full Text: PDF(344 KB) IEEE CNF Rights and Permissions 22. CRT disposition: an assessment of limitations and opportunities in reuse and recycling in the U.S Mizuki, C.; Pitts, G.; Aanstoos, T.; Nichols, S.; Electronics and the Environment, 1997. ISEE-1997., Proceedings of the 1997 International Symposium on 5-7 May 1997 Page(s):73 - 78 Digital Object Identifier 10.1109/ISEE.1997.605265 AbstractPlus | Full Text: PDF(660 KB) IEEE CNF Rights and Permissions 23. Radiated emission from CRT of computer VDU \Box Han Fang; Electromagnetic Compatibility, 1990. Symposium Record. 1990 IEEE Internation 21-23 Aug. 1990 Page(s):58 - 61 Digital Object Identifier 10.1109/ISEMC.1990.252732 AbstractPlus | Full Text: PDF(524 KB) IEEE CNF Rights and Permissions 24. Perspectives on Small, Flat Video Displays Pierce, D.G.; Levy, R.A.; Consumer Electronics, IEEE Transactions on Volume CE-24, Issue 4, Nov. 1978 Page(s):571 - 582 Digital Object Identifier 10.1109/TCE.1978.266979 AbstractPlus | Full Text: PDF(2593 KB) | IEEE JNL Rights and Permissions 25. Is CRT glass-to-lead recycling safe and environmentally friendly? Weitzman, D.H.; Electronics and the Environment, 2003. IEEE International Symposium on 19-22 May 2003 Page(s):329 - 334 Digital Object Identifier 10.1109/ISEE.2003.1208099 AbstractPlus | Full Text: PDF(431 KB) IEEE CNF Rights and Permissions .

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STIC Search Report

STIC Database Tracking Number 21752

TO: April Shan

Location: RND 2A14

Art Unit: 2135

Friday, March 09, 2007

Case Serial Number: 10/789373

From: Ruth E. Spink Location: EIC 2100

RND-4B31

Phone: 23524

Ruth.spink@uspto.gov

Search Notes

April– Attached is the inventor, f	oreign patent and NP	L search for the a	bove reference	d case.	Be sure to
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Ruth



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[File 348] EUROPEAN PATENTS 1978-2007/ 200708

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[File 349] PCT FULLTEXT 1979-2007/UB=20070301UT=20070222

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14/5/1 (Item 1 from file: 349) Links

PCT FULLTEXT

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00915099

METHOD AND DEVICE FOR DETECTING A KEY PAIR AND FOR GENERATING RSA KEYS PROCEDE ET DISPOSITIF POUR DETERMINER UNE PAIRE DE CLES ET POUR PRODUIRE DES CLES RSA

VERFAHREN UND VORRICHTUNG ZUM ERMITTELN EINES SCHLUESSELPAARS UND ZUM ERZEUGEN VON RSA-SCHLUESSELN

Patent Applicant/Patent Assignee:

• INFINEON TECHNOLOGIES AG; St.-Martin-Str. 53, 81669 Munchen

DE; DE(Residence); DE(Nationality) (For all designated states except: US)

• SEIFERT Jean-Pierre; Harsdoerfer Str. 1, 81669 Munchen

DE; DE(Residence); DE(Nationality)

(Designated only for: US)

Patent Applicant/Inventor: .

• SEIFERT Jean-Pierre

Harsdoerfer Str. 1, 81669 Munchen; DE; DE(Residence); DE(Nationality); (Designated only for: US)

Legal Representative:

• SCHOPPE Fritz(et al)(agent)

Schoppe, Zimmermann, Stockeler & Zinkler, Postfach 71 08 67, 81458 Munchen; DE;

	Country	Number	Kind	Date
Patent	WO	200249266	A2-A3	20020620
Application	WO	2001EP14350		20011206
Priorities	DE	10061697		20001212

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;

UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04L-009/30	Main

Publication Language: German Filing Language: German Fulltext word count: 3314

English Abstract:

The invention relates to a method for detecting a number pair comprising a first number and a second number. According to the inventive method, the first number is selected (100), said first number being a first key and the second number being a second key of an encryption system, the second number being the multiplicative inverse with respect to a module of the first number, and the module equaling the product from a first prime number and a second prime number. A first subnumber (d"sub"p) and a second subnumber (d"sub"q) are calculated for the second number (d) as the multiplicative inverse of the first number (e) with respect to a second submodule (120), the first submodule and the second submodule being relatively prime. Finally, the second number (d) is determined using the first subnumber (d"sub"p) and the second subnumber (d"sub"q) and applying the Chinese remainder theorem (130).

French Abstract:

L'invention concerne un procede pour determiner une paire de nombres comprenant un premier et un deuxieme nombre, le premier nombre pouvant etre une premiere cle et le deuxieme nombre une deuxieme cle d'un systeme de codage, et le deuxieme nombre etant l'inverse multiplicatif d'un module du premier nombre, ce module etant egal au produit d'un premier nombre premier et d'un deuxieme nombre premier. Selon ce procede, on commence par selectionner (100) le premier nombre, puis on calcule (110) un premier sous-nombre (d'sub"p) pour le deuxieme nombre (d) comme inverse multiplicatif du premier nombre (e) par rapport a un premier sous-module egal au premier nombre premier moins 1 divise par le plus grand denominateur commun (ggT) du premier nombre premier moins 1 et du deuxieme nombre premier moins 1. On calcule (120) ensuite un deuxieme sous-nombre (d"sub"q) pour le deuxieme nombre (d) comme inverse multiplicatif du premier nombre (e) par rapport a un deuxieme sous-module egal au deuxieme nombre premier (q) moins 1, le premier et le deuxieme sous-module etant relativement premiers. Pour finir, le deuxieme nombre (d) est determine (130) a l'aide du premier sous-nombre (d"sub"p) et du deuxieme sous-nombre (d"sub"q) au moyen du theoreme chinois des restes (CRT). En utilisant le theoreme chinois des restes, on transforme l'operation de formation des inverses multiplicatifs en deux operations correspondantes avec des nombres plus courts et une etape de combinaison rapide, si bien que l'on obtient une acceleration de facteur 4 comparativement a un procede ne faisant pas appel au theoreme chinois des restes.

Туре	Pub. Date	Kind	Text
Publication	20020620		Without international search report and to be republished upon receipt of that report.
Search Rpt	20021227		Late publication of international search report
Republication	20021227	A3	With international search report.
Examination	20030213		Request for preliminary examination prior to end of 19th month from priority date

14/5/2 (Item 2 from file: 349) Links

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00884964

METHOD AND DEVICE FOR CARRYING OUT A MODULAR EXPONENTIATION IN A CRYPTOGRAPHIC PROCESSOR

PROCEDE ET DISPOSITIF PERMETTANT D'EXECUTER UNE EXPONENTIATION MODULAIRE DANS UN PROCESSEUR CRYPTOGRAPHIQUE

VERFAHREN UND VORRICHTUNG ZUM DURCHFUHREN EINER MODULAREN EXPONENTIATION IN EINEM KRYPTOGRAPHISCHEN PROZESSOR

Patent Applicant/Patent Assignee:

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Patent Applicant/Inventor:

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• SEIFERT Jean-Pierre

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Legal Representative:

• SCHOPPE Fritz(et al)(agent)

Postfach 71 08 67, 81458 Munchen; DE;

	Country	Number	Kind	Date
Patent	wo	200219065	A2	20020307
Application	WO	2001EP9285		20010810
Priorities	DE	10042234		20000828

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE; TR;

Main International Patent Classes (Version 7):

,	IPC	Level
G06F-001/00		Main
G06F-007/72		

Publication Language: German
Filing Language: German
Fulltext word count: 4032

English Abstract:

French Abstract:

Туре	Pub. Date	Kind	Text
Publication	20020307	1/1/1	Without international search report and to be republished upon receipt of that report.
Declaration	20020926		Late publication under Article 17.2a
Republication	20020926	A2	With declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority.
Examination	20021128		Request for preliminary examination prior to end of 19th month from priority date

14/5/3 (Item 3 from file: 349) Links

PCT FULLTEXT

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00516888

CODE EXCHANGE PROTOCOL

PROTOCOLE D'ECHANGE DE CODES

Patent Applicant/Patent Assignee:

SIEMENS AKTIENGESELLSCHAFT;

;;

VON DER HEIDT Guido;

;;

• SoHNE Peter;

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VELTEN Joachim;

,

	Country	Number	Kind	Date
Patent	WO	9948240	A1	19990923
Application	· WO	99DE771		19990318
Priorities	DE	19811833		19980318

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

	IPC	•	Level
H04L-009/08			Main

Publication Language: German

Filing Language:

Fulltext word count: 1498

English Abstract:

The invention relates to a code exchange protocol in which communication partners (A, B) each have a secret code (S) and a public code (P). According to the invention, communication partner (A) selects a random number (x), and communication partner (B) selects a random number (y). A first partial code (Ax) is formed by communication partner (A), and a second partial code (By) is formed by communication partner (B) by using the public code (P) of the respective partner (B, A). Each partial code is transmitted to the other communication partner (B, A). A session code (gxy, gyx) is formed from each of the personal random numbers (x, y) and from the partial code (By, Ax) of the respective communication partner (B, A) by using the personal secret code (S), whereby the partial codes (Ax, By), and the session codes (gxy, gyx) can be calculated in a manner which is analogous to the Diffie-Hellman protocol.

French Abstract:

L'invention concerne un protocole d'echange de codes dans lequel des correspondants (A, B) possedent respectivement un code secret (S) et un code public (P), le correspondant (A) composant un nombre aleatoire (x) et le correspondant (B) composant un nombre aleatoire (y). Un premier code partiel (Ax) est forme par le correspondant (A), et un deuxieme code partiel (By) est forme par le correspondant (B) a l'aide du code public (P) du correspondant respectif (B, A), ce premier code et ce deuxieme code etant transmis respectivement a l'autre correspondant (B, A). Un code de session (gxy, gyx) est forme respectivement a partir du nombre aleatoire personnel (x, y) et du code partiel (By, Ax) du correspondant respectif (B, A), a l'aide du code secret (S) personnel, le code partiel (Ax, By) et le code de session (gxy, gyx) etant calcules par analogie avec le protocole de Diffie-Hellman.

14/5/4 (Item 1 from file: 350) Links

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0012395983 Drawing available WPI Acc no: 2002-339681/200237 XRPX Acc No: N2002-267108

Method for production of security module with virtual memory addressing uses provision of 2 security modules having different mapping specifications

Patent Assignee: INFINEON TECHNOLOGIES AG (INFN)

Inventor: SEDLAK H; SEIFERT J

Patent Family (5 patents, 93 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
WO 2002019065	A2	20020307	WO 2001EP9285	Α .	20010810	200237	В
DE 10042234	A1	20020314	DE 10042234	Α	20000828	200237	E
DE 10042234	C2	20020620	DE 10042234	Α	20000828	200239	Е
AU 200187675	A	20020313	AU 200187675	Α	20010810	200249	Е
AU 2001287675	A8	20050922	AU 2001287675	A	20010810	200570	Е

Priority Applications (no., kind, date): DE 10042234 A 20000828

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing N	otes
WO 2002019065	A2	DE	26	5		
National Designated States,Original	CZ DE DK DM D JP KE KG KP KR	Z EC KZ I L PT	EE : C L RO :	ES FI (K LR I	B BG BR BY BZ CA C GB GD GE GH GM HI LS LT LU LV MA MD O SE SG SI SK SL TJ T	R HU ID IL IN IS MG MK MN MW
Regional Designated States, Original	AT BE CH CY DE	E DK	ES I	FI FR (GB GR IE IT LU MC N	L PT SE TR
AU 200187675	A	EN			Based on OPI patent	WO 2002019065
AU 2001287675	A8	EN			Based on OPI patent	WO 2002019065

Alerting Abstract WO A2

NOVELTY - The method uses provision of a first security module with a first mapping specification for mapping logical addresses onto physical addresses and provision of a second security module with a second mapping specification, which is different to the first mapping specification, with random provision of the first or the second mapping specification.

DESCRIPTION - Also included are INDEPENDENT CLAIMS for the following:

A. a security module with virtual memory addressing;

B. a device for production of a security module with virtual memory addressing;

C. a method for configuring a security module with a virtual memory address

USE - The method is used for production of a security module with virtual memory addressing.

ADVANTAGE - The stored information is stored in different physical addresses at 2 different points in time for increasing the protection of the security module from attack.

DESCRIPTION OF DRAWINGS - The figure shows a flow diagram for production of a security module with virtual memory addressing. (Drawing includes non-English language text).

Title Terms /Index Terms/Additional Words: METHOD; PRODUCE; SECURE; MODULE; VIRTUAL; MEMORY; ADDRESS; PROVISION; MAP; SPECIFICATION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-001/00; H04L-009/30			Main		"Version 7"
G06F-007/58; G06F-007/72			Secondary		"Version 7

File Segment: EPI; DWPI Class: T01

Manual Codes (EPI/S-X): T01-H01A; T01-H01C2; T01-H03A; T01-J12C

DE 59906682	G	DE	Application	EP 1999919098
			PCT Application	WO 1999DE771
			Based on OPI patent	EP 1062763
			Based on OPI patent	WO 1999048240
US 7016500	B1	EN	PCT Application	WO 1999DE771
			Based on OPI patent	WO 1999048240

Alerting Abstract WO A1

NOVELTY - Communications partner A selects random number x and partner B selects number y. Subcodes Ax for partner A and By for partner B are set up by using a public code P. Each subcode is transmitted to the other partner. Sessions codes gxy and gyx are set up from both the random numbers x and y and from subcodes Ax and By by using a personal secret code S. This allows subcodes Ax and By along with session codes gxy and gyx to be calculated to match the Diffie-Hellman protocol.

USE - In end-to-end authentification. In encoding procedures, coding devices and tamper-proof devices. ADVANTAGE - The encoding procedure requires little computation, since little exponential application is needed.

Title Terms /Index Terms/Additional Words: CODE; EXCHANGE; PROTOCOL; COMMUNICATE; PARTNER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
H04L-009/08; H04L-009/30	•	-	Main		"Version 7"
G09C-001/00			Secondary		"Version 7
H04L-0009/00	Α	I	F	В	20060101

US Classification, Issued: 380282000, 380030000, 380046000, 713171000

File Segment: EngPI; EPI; DWPI Class: T01; W01; P85

Manual Codes (EPI/S-X): T01-D01; T01-J12C; W01-A05A; W01-A05B

1/5/1 <u>Links</u>

Derwent WPIX

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0013194811 Drawing available WPI Acc no: 2003-278924/200327 XRPX Acc No: N2003-221446

Calculation of the result of a modular exponentiation to increase RSA-CRT calculation security against cryptographic attacks by randomization of the auxiliary exponents or alteration of the sub- modules

Patent Assignee: INFINEON TECHNOLOGIES AG (INFN)

Inventor: SEIFERT J; SEIFERT J P; VELTEN J

Patent Family (7 patents 100 countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
WO 2003023605	A2	20030320	WO 2002EP9405	Α.	20020822	200227	
DE 10143728	A1	20030403	DE 10143728	A	20020822	200327	B
EP 1423786	A2	20040602	EP 2002797920	A	20010906	200330	E
			WO 2002EP9405		20020822	200436	E
DE 10143728	B4	20040902	DE 10143728		20020822	200457	ļ
AU 2002333678		20030324	AU 2002333678	_	20010908	200457	E
US 20040215685	Al	20041028	WO 2002 EDG 40.5		20020822	200460	E
			TIC 200 (500050		20040227	2004/1	E
CN 1554047	Α	20041208	CNI 2002017577		20020822	200517	E

Priority Applications (no., kind, date): DE 10143728 A 20010906

Patent Details

Patent Number	77: 1	T.		atent L		•
atent Number	Kind	Lan	Pgs	Draw	Filing No	tes
WO 2003023605	A2	DE	24	3		
National Designated States,Original	AE AG AL A CZ DE DK DI KE KG KP KI MZ NO NZ O	M AT M DZ R KZ M PH	F AU EC LC I PL	J AZ B EE ES LK LR PT RO	SA BB BG BR BY BZ CA C S FI GB GD GE GH GM HR C LS LT LU LV MA MD MC D RU SD SE SG SI SK SL T	HUIDILINIS JP
Regional Designated States, Original	UA UG US UZ AT BE BG CH LU MC MW N	I CY	CZ.	DE DE	A ZM ZW K EA EE ES FI FR GB GH C D SE SK SL SZ TR TZ UG	GM GR IE IT KE LS ZM ZW
EP 1423786	A2	DE]	PCT Application	WO 2002EP9405
TV COCCEPTION	VIC IVIK IVL P	CH CRO	CY (CZ DE	Based on OPI patent DK EE ES FI FR GB GR II TR	WO 2003023605 E IT LI LT LU LV
10.000.00		EN EN			Based on OPI patent Continuation of application	WO 2003023605 WO 2002EP9405

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S2
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S3
           40
                SELECT AU= "SEIFERT, JEAN-PIERRE"
           19
                SELECT AU= "SEIFERT J"
S5
          582
                SELECT AU= "SEIFERT J P" OR AU= "SEIFERT JP"
S6
           23
                SELECT AU= "SEIFERT JEAN-PIERRE"
S7
            7
S8
         1499
                S S2:S7
                S AU=(VELTEN, J? OR VELTEN J?)
S9
           91
S10
         1590
                S S8 OR S9
                S (PUBLIC OR SECRET OR PRIVATE OR ENCRYPT? OR CRYPT?)()KEY? ? OR PKI OR
        35550
CRYPTOKEY? ? OR CRYPTKEY? ? OR PERMITKEY? ? OR ACCESSKEY? ? OR KEYPAIR? ? OR
ASYMMETRIC? () CRYPTOGRAPHY
       791626
                S ENCRYPT? OR CIPHER? OR CYPHER? OR CRYPTO? OR ENCIPHER? OR ENCYPHER? OR
ENCOD?
         7451
                S S12 AND (RSA OR CRT)
S13
S14
            3
                S CHINESE() RESIDUE() THEOREM
S15
         1875
                S CHINESE() REMAINDER() THEOREM
S16
          375
                S RIVEST()SHAMIR()ADLEMAN
         1118
                S MODULAR () EXPONENTIATION
S17
                S S10 AND (S11 OR S13 OR S14 OR S15 OR S16 OR S17)
           38
S18
            9
               S S18 NOT PY>2001
S19
            5
S20
                RD
                    (unique items)
 ; show files
```

[File 8] Ei Compendex(R) 1884-2007/Feb W4

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*File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.

[File 111] TGG Natl.Newspaper Index(SM) 1979-2007/Mar 05

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[File 239] Mathsci 1940-2007/Apr

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20/5/1 (Item 1 from file: 2) Links

INSPEC

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08087050 INSPEC Abstract Number: B2001-12-6120D-066, C2001-12-1260C-037

Title: Using fewer qubits in Shor's factorization algorithm via simultaneous Diophantine approximation

Author Seifert, J.-P.

Author Affiliation: Infineon Technol., Munich, Germany

Conference Title: Topics in Cryptology - CT-RSA 2001. The Cryptographers' Track at RSA Conference 2001.

Proceedings (Lecture Notes in Computer Science Vol.2020) p. 319-27

Editor(s): Naccache, D.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 2001 **Country of Publication:** Germany xii+471 pp. **ISBN:** 3 540 41898 9 **Material Identity Number:** XX-2001-01772

Conference Title: Topics in Cryptology - CT-RSA 20001

Conference Sponsor: Compaq Comput. Corp.; Hewlett-Packard; IBM; Intel Corp.; Microsoft; nCipher; EDS; et al

Conference Date: 8-12 April 2001 Conference Location: San Francisco, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: While quantum computers might speed up in principle certain computations dramatically, in practice, though quantum computing technology is still in its infancy. Even we cannot clearly envision at present what the hardware of that machine will be like. Nevertheless, we can be quite confident that it will be much easier to build any practical quantum computer operating on a few number of quantum bits rather than one operating on a huge number of quantum bits. It is therefore of big practical impact to use the resource of quantum bits very sparingly, ie, to find quantum algorithms which use as few as possible quantum bits. Here, we present a method to reduce the number of actually needed qubits in Shor's algorithm to factor a composite number N. Exploiting the inherent probabilism of quantum computation we are able to substitute the continued fraction algorithm to find a certain unknown fraction by a simultaneous Diophantine approximation. While the continued fraction algorithm is able to find a Diophantine approximation to a single known fraction with a denominator greater than N/sup 2/, our simultaneous Diophantine approximation method computes in polynomial time unusually good approximations to known fractions with a denominator of size N/sup 1+ epsilon /, where epsilon is allowed to be an arbitrarily small positive constant. As these unusually good approximations are almost unique we are able to recover an unknown denominator using fewer qubits in the quantum part of our algorithm. (26 Refs)

Subfile: B C

Descriptors: computational complexity; number theory; **public key** cryptography; quantum computing; quantum cryptography

Identifiers: Shor factorization algorithm; simultaneous Diophantine approximation; quantum computers; quantum computing; quantum bits; quantum algorithms; qubits; probabilism; continued fraction algorithm; polynomial time Class Codes: B6120D (Cryptography); B0250 (Combinatorial mathematics); C1260C (Cryptography theory); C4270 (Quantum computing theory); C1160 (Combinatorial mathematics)

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20/5/2 (Item 2 from file: 2) **Links**

INSPEC

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07670476 INSPEC Abstract Number: B2000-09-6120D-039, C2000-09-1260C-022 Title: Extending Wiener's attack in the presence of many decrypting exponents

Author Howgrave-Graham, N.; Seifert, J.-P.

Author Affiliation: Math. Sci. Dept., Bath Univ., UK

Conference Title: Secure Networking - CQRE [Secure]'99. International Exhibition and Congress. Proceedings

(Lecture Notes in Computer Science Vol.1740) p. 153-66

Editor(s): Baumgart, R.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1999 Country of Publication: Germany ix+258 pp. ISBN: 3 540 66800 4 Material Identity Number: XX-2000-00034

Conference Title: Secure Networking - CQRE [Secure]'99

Conference Date: 30 Nov.-2 Dec. 1999 Conference Location: Dusseldorf, Germany

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Wiener (1990) has shown that when the RSA protocol is used with a decrypting exponent, d, which is less than N/sup 1/4/ and an encrypting exponent, e, approximately the same size as N, then d can usually be found from the continued fraction approximation of e/N. We extend this attack to the case when there are many e/sub i/ for a given N, all with small d/sub i/. For the case of two such e/sub i/, the d/sub i/ can (heuristically) be as large as N/sup 5/14/ and still be efficiently recovered. As the number of encrypting exponents increases the bound on the d/sub i/, which enables efficient recovery of the d/sub i/, increases (slowly) to N/sup 1- epsilon /. However, the complexity of our method is exponential in the number of exponents present, and therefore only practical for a relatively small number of them. (12 Refs)

Subfile: B C

Descriptors: protocols; public key cryptography

Identifiers: decrypting exponents; RSA protocol; encrypting exponent; fraction approximation; exponential

complexity; public key cryptography

Class Codes: B6120D (Cryptography); C1260C (Cryptography theory); C6130S (Data security)

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20/5/3 (Item 3 from file: 2) Links

INSPEC

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07576378 INSPEC Abstract Number: B2000-06-6120D-020, C2000-06-1260C-019

Title: Tensor-based trapdoors for CVP and their application to public key cryptography

Author Fischlin, R.; Seifert, J.-P.

Author Affiliation: Fachbereich Math., Frankfurt Univ., Germany

Conference Title: Cryptography and Coding. 7th IMA International Conference. Proceedings (Lecture Notes in

Computer Science Vol.1746) p. 244-57

Editor(s): Walker, M.

Publisher: Sprnger-Verlag, Berlin, Germany

Publication Date: 1999 **Country of Publication:** Germany ix+312 pp. **ISBN:** 3 540 66887 X **Material Identity Number:** XX-1998-03682

Conference Title: Proceedings of 7th Conference on Cryptography and Coding Conference Date: 20-22 Dec. 1999 Conference Location: Circnester, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: We propose two trapdoors for the closest-vector-problem in lattices (CVP) related to the lattice tensor product. Using these trapdoors we set up a lattice-based cryptosystem which resembles the McEliece scheme. (26

Refs)

Subfile: B C

Descriptors: lattice theory; public key cryptography; tensors; vectors

Identifiers: tensor-based trapdoors; public key cryptography; closest-vector problem; lattice tensor product Class Codes: B6120D (Cryptography); B0210 (Algebra); C1260C (Cryptography theory); C1110 (Algebra)

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20/5/4 (Item 1 from file: 144) Links

Fulltext available through: <u>USPTO Full Text Retrieval Options</u> <u>ScienceDirect</u>

Pascal

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15333989 PASCAL No.: 02-0020666

Information leakage attacks against Smart card implementations of the elliptic curve digital signature algorithm

E-smart 2001 : smart card programming and security : Cannes, 19-21 September 2001

ROEMER Tanja; SEIFERT Jean-Pierre

ATTALI Isabelle, ed; JENSEN Thomas, ed

Infineon Technologies Corporation Security & ChipCard ICs Technical Innovations, 81609 Munich, Germany

International conference on research in smart cards (Cannes FRA) 2001-09-19

Journal: Lecture notes in computer science,

2001, 2140 211-219

ISBN: 3-540-42610-8 ISSN: 0302-9743 Availability:

INIST-16343; 354000097048760170

No. of Refs.: 18 ref.

Document Type: P (Serial); C (Conference Proceedings); A (Analytic)

Country of Publication: Germany

Language: English

In this article we will be concerned with a polynomial-time attack against the ECDSA, which computes the secret key of the ECDSA

if a few bits of the ephemeral-key from several ECDSA-signatures are known. The number of needed bits per signature is 12, if one has access to an ideal lattice basis reduction algorithm computing the n SUP t SUP h successive minimum of a lattice with rank n. The aforesaid bits of the ephemeral-key can be obtained from insecure ECDSA implementations by so side-channel-attacks like Timing, Simple-Power-Analysis, Differential-Power-Analysis, Electromagnetic or Differential-Fault attacks. Our attack combines a recent idea of Howgrave-Graham and Smart with an old lattice attack against linear congruential pseudo-random number generators due to Frieze, Hastad, Kannan, Lagarias und Shamir. In contrast to Howgrave-Graham and Smart, our approach enables the exact determination of the number of needed (side-channel) bits and uses an easier lattice problem making the attack very practical.

English Descriptors: Cryptanalysis; Fault diagnostic; Timing; Elliptic curve; Intelligent system; Digital signature; Smart cards; Polynomial time; Lattice

French Descriptors: Cryptanalyse; Diagnostic panne; Timing; Courbe elliptique; Systeme intelligent; Signature numerique; Carte a puce; Temps polynomial; Treillis; Smart card

Classification Codes: 001D04A04E

20/5/5 (Item 1 from file: 239) Links

Mathsci

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03301702 MR 2002h#94079

Tensor-based trapdoors for CVP and their application to public key cryptography (extended abstract).

Cryptography and coding (Cirencester, 1999)

Fischlin, Roger (Department of Mathematics, Johann Wolfgang Goethe-Universitat Frankfurt, D-60054 Frankfurt am Main, Germany)

Seifert, Jean-Pierre (Department of Mathematics, Johann Wolfgang Goethe-Universitat Frankfurt, D-60054 Frankfurt am Main, Germany)

Corporate Source Codes: D-FRNK; D-FRNK

1999,

Springer, Berlin,; 244--257,,

Series: Lecture Notes in Comput. Sci., 1746,

Language: English Summary Language: English

Document Type: Proceedings Paper **Journal Announcement:** 200203

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: SHORT (4 lines)

Summary: "We propose two trapdoors for the closest-vector problem in lattices related to the lattice tensor product.

Using these trapdoors we set up a lattice-based cryptosystem which resembles the McEliece scheme."

\{For the entire collection see MR 2002d:94047.\}

Reviewer: Summary Review Type: Abstract

Proceedings Reference: 2002d#94047; 1 861 825

Descriptors: * 94A62 -Information and communication, circuits-Communication, information- Authentication and

secret sharing

Set	Items	Description
S1	15291	S (PRIVATE OR SECRET)()KEY? ? OR ASYMMETRIC?()CRYPTOGRAPHY
S2	346	S MODULAR()EXPONENTIATION
S3	73049	S CRT OR CHINESE()(RESIDUE OR REMAINDER)()THEOREM
S4	442	S (EIGHTH OR 8TH) (3W) (QUANTITY OR QUANTITIES OR SUM OR SUMS OR TOTAL? ?
OR F	RESULT? ?)	
S5	2807	S PRIME()NUMBER? ?
S6	26273	S (RANDOM OR PSEUDORANDOM)()(NUMBER? ? OR INTEGER? ? OR VALUE? ?)
S7	5806	S (SAFETY OR SECURITY) () (PARAMETER? ? OR NUMBER? ? OR VALUE? ?)
S8	0	S S1 (50N) S2 (50N) S3 (50N) S4 (50N) S5 (50N) S6 (50N) S7
S9	2387	S (AUTHORI? OR AUTHENTICAT?)() (PARAMETER? ? OR NUMBER? ? OR VALUE? ?)
S10	. 0	S S1 (50N) S2 (50N) S3 (50N) S4 (50N) S5 (50N) S6 (50N) S9
S11	0	S S1 (50N) S2 (50N) S4 (50N) S5 (50N) S6 (50N) (S7 OR S9)
; 5	show files	

[File 348] EUROPEAN PATENTS 1978-2007/ 200708

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[File 349] PCT FULLTEXT 1979-2007/UB=20070308UT=20070301

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[File 350] **Derwent WPIX** 1963-2006/UD=200716

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^{*}File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

^{*}File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.

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Set Items Description
S1 1613 S (PRIVATE OR SECRET)()KEY? ? OR ASYMMETRIC?()CRYPTOGRAPHY
S2 2 S MODULAR()EXPONENTIATION
S3 0 S S1 AND S2
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[File 347] **JAPIO** Dec 1976-2006/Nov(Updated 070228)

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S2
         1118
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                S CRT OR CHINESE()(RESIDUE OR REMAINDER)()THEOREM
        35826
S3
          361
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S4
OR RESULT? ? )
        12337
                S PRIME() NUMBER? ?
S5
        26182
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S6
         3431
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S7
                S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7
S8
          166
                S (AUTHORI? OR AUTHENTICAT?) () (PARAMETER? ? OR NUMBER? ? OR VALUE? ?)
S9
            n
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S10
                S S1 AND S2 AND S4 AND S5 AND S6 AND (S7 OR S9)
S11
 ; show files
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[File 8] Ei Compendex(R) 1884-2007/Feb W4

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[File 35] Dissertation Abs Online 1861-2007/Feb

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[File 111] TGG Natl.Newspaper Index(SM) 1979-2007/Mar 06

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[File 6] **NTIS** 1964-2007/Mar W1

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[File 583] Gale Group Globalbase(TM) 1986-2002/Dec 13 (c) 2002 The Gale Group. All rights reserved. *File 583: This file is no longer updating as of 12-13-2002.

[File 239] Mathsci 1940-2007/Apr(c) 2007 American Mathematical Society. All rights reserved.

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Set '
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                S MODULAR () EXPONENTIATION
S2
          131
        85255
                S CRT OR CHINESE() (RESIDUE OR REMAINDER) () THEOREM
S3
                S (EIGHTH OR 8TH ) (3W) (QUANTITY OR QUANTITIES OR SUM OR SUMS OR TOTAL? ?
         3168
S4
OR RESULT? ? )
         3525
                S PRIME()NUMBER? ?
S5
S6
        12815
                S (RANDOM OR PSEUDORANDOM) () (NUMBER? ? OR INTEGER? ? OR VALUE? ?)
        66283
                S (SAFETY OR SECURITY OR AUTHORI? OR AUTHENTICAT?)
                                                                      () (PARAMETER? ? OR
S7
NUMBER? ? OR VALUE? ?)
                S S1 (50N) S2 (50N) S3 (50N) S4 (50N) S5 (50N) S6 (50N) S7
            Ω
S8
            n
                S S1 (50N) S2 (50N) S4 (50N) S5 (50N) S6 (50N) S7
S9
 ; show files
```

[File 369] New Scientist 1994-2007/Nov W2

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[File 160] Gale Group PROMT(R) 1972-1989

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